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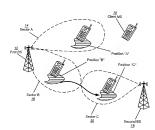
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(54) Title: FORWARD LINK BASED RESCUE CHANNEL METHOD AND APPARATUS FOR TELECOMMUNICATION SYSTEMS



(57) Abstract: A forward rescue procedure (FRP) for preventing loss of signal and dropped connections between a mobile station (10) and the infrastructure (14) in a wireless telecommunications network (12) is disclosed. The FRP allows wireless systems to recover from forward link failures at the mobile station that would otherwise result in dropped connections. Examples of failure scenarios that can be overcome using the FRP include forward link Layer 2 acknowledgement failures and loss of forward link signal due to a fade that causes loss of signal for a period of time exceeding a threshold value. In response to a potential connection drop situation, a mobile station will autonomously add base station pilot channels to the active set of its rake receiver in order to rescue the connection in danger of dropping. Concurrently, the wireless network infrastructure will initiate transmission on alternative forward link channels that are likely to be monitored by the mobile station during an FRP. If the same channels are monitored by the MS and transmitted on by the infrastructure, the connection in danger of dropping can be rescued.



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INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/32464

CLASSIFICATION OF SUBJECT MATTER IPC(7) :H04Q 7/20 US CL : 455/437, 10, 504 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 455/487, 10, 504, 414, 423, 63, 438, 444, 513 Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BRS

DOCUMENTS CONSIDERED TO BE RELEVANT C.

searched

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,267,261 A (BLAKENEY, II et al) 30 Nove,ber 1993, col 2 lines 20-59, col 3 line 27-col 4 line 35, col 6 lines 6-34, col 18 line 53-col 19 line 23	1-8,11-15,18- 23,27-31,34- 4 1 , 4 4 - 52,55,56,59- 61,63,64,66,67,7 0-74,76-78,80- 83,85,87-91
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A	US 6,052,594 A (CHUANG et al) 18 April 2000, see whole document	1-91

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X	Further documents are listed in the continuation of Box	C. See patent family annex.	
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apa	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
A	US 5,937,019 A (PADOVANI) 10 August 1999, see whole document	1-91			
A,P	US 6,253,0 2 3 B1 (HACENA et al) 26 June 2001, col 2 line 48-col 4 line 30	1-91			
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